

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Panaccio, et al.)	Group Art Unit Unknown
Appl. No.	:	10/009,823)	
Filed	:	November 13, 2001)	
For	:	LAWSONIA DERIVED GENE AND RELATED FLGE POLYPEPTIDES, PEPTIDES, AND PROTEINS)	
Examiner	:	Unknown)	

RESPONSE TO MISSING REQUIREMENTS
AND
SUPPLEMENTAL PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

In response to the missing requirements mailed from the Patent and Trademark Office on February 14, 2002, and preliminary to examination on the merits, please amend the above-captioned patent application as follows:

IN THE SPECIFICATION

On page 7, fourth compete paragraph, lines 24-32, please replace the paragraph with the following:

--Figure 1 is a schematic representation comparing the amino acid sequence of *Lawsonia intracellularis* (L. int) flagellar hook protein FlgE (SEQ ID NO:1) to the amino acid sequences of flagellar hook proteins derived from *Treponema phagedenis* (T.phage)(SEQ ID NO:7), *Treponema pallidum* (T. palli)(SEQ ID NO:8), *Salmonella typhimurium* (S.typhi)(SEQ ID NO:9), *Escherichia coli* (E.coli)(SEQ ID NO:10), *Aquifex aeolicus* (A.aeo)(SEQ ID NO:11),